

Title (en)  
FUEL PRE-FILTERING ELEMENT

Title (de)  
KRAFTSTOFFVORFILTRIERUNGSVORRICHTUNG

Title (fr)  
ÉLÉMENT DE PRÉ-FILTRAGE DE CARBURANT

Publication  
**EP 3530337 A1 20190828 (EN)**

Application  
**EP 19157781 A 20190218**

Priority  
BR 102018003899 A 20180227

Abstract (en)  
The present invention relates to a fuel pre-filtering element (1), comprising: a casing (10) provided with a fuel outlet (13), an internal tube (11), an upper annular element (21), a lower annular element (22), a filtering element (30) and a cover (40), the filtering element (30) being arranged around the internal tube (11), the upper and lower annular elements (21, 22) being fixed, respectively, to the upper and lower ends of the filtering element (30), the filtering element (30) being arranged inside the casing (10) such that i) the internal tube (11) establishes a contact with the fuel outlet (13), ii) the upper annular element (21) is arranged around the fuel outlet (13) and in contact with an upper surface (10a) of the casing and the upper annular element (21) is deformed and forms an annular projection (21a), the annular projection (21a) establishing a seal between the internal tube (11), the fuel outlet (13) and the casing (10), the arrangement of the filtering element (30) inside the casing (10) further forming a region (12) of unfiltered fuel, the region (12) of unfiltered fuel being the space formed between the internal walls of the casing (10) and the external walls of the filtering element (30), the cover (40) being pressed against the lower annular element (30) and being fixed to a lower surface (10b) of the casing.

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Citation (search report)  
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• [Y] CN 101850198 A 20101006 - CUMMINS FILTER IP COMPANY  
• [A] DE 4419360 C1 19950810 - KNECHT FILTERWERKE GMBH [DE]  
• [A] EP 0685251 A1 19951206 - KNECHT FILTERWERKE GMBH [DE]  
• [A] DE 102016206923 A1 20171026 - MAHLE INT GMBH [DE]

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